

Amendments to the Claims:

1. (Currently Amended) An OFDM receiver comprising:

at least four antennas to receive an OFDM modulated high frequency signal;
and

a plurality of OFDM demodulators to each of which a ~~base band~~baseband signal of a ~~time areatime domain~~ thereto based on the high frequency signal is input and from each of which a ~~base band~~baseband signal of a ~~frequency areafrequency domain~~ is output,

wherein the ~~each~~ OFDM demodulators are ~~arranged in~~ coupled to plural a respective antenna groups, each antenna group containing at least two of the at least four antennas;

a first phase shifter coupled to a second antenna of each antenna group, an output of the first phase shifter and an output of a first antenna of each antenna group being combined in a first adder to provide the baseband signal to ~~is arranged on a former stage side of each of the OFDM demodulators;~~

a first control circuit coupled to an output of the first adder and to a second input of each first phase shifter;

a second phase shifter ~~is arranged at a latter stage of~~ coupled to an output of a second OFDM demodulator that is different from a ~~specific-first~~ OFDM demodulator among the OFDM demodulators,

a second control circuit coupled to an output of the plurality of OFDM demodulators and to a second input of the second phase shifter;

a second adder coupled to an output of the second phase shifter and an output of the second OFDM demodulator, wherein

a signal is diversity-synthesized by the first phase shifter until the ~~base band~~baseband signal of the ~~time areatime domain~~ is inputted to each of the OFDM demodulators, and the ~~base band~~baseband signal of the ~~frequency areafrequency domain~~ is diversity-synthesized by the second phase shifter.

2. (Currently amended) The OFDM receiver according to claim 1, wherein the ~~base band~~baseband of the ~~time areatime domain~~ based on the high frequency signal ~~is received by a specific-first~~ antenna in each of the antenna groups, and the

~~base-band~~baseband signal of the ~~time-area~~time domain based on the high frequency signal ~~is received by a second antenna different from the specific-first antenna~~ are diversity-synthesized by the first phase shifter.

3. (Currently Amended) The OFDM receiver according to claim 2, wherein each antenna in each antenna group is coupled to a receiving portion that frequency- converts the high frequency signal to an intermediate frequency signal and an A/D converter that converts the intermediate frequency signal to a digital signal is coupled to each of the receiving portions~~and outputs the base band signal of the time-area~~ ~~are arranged for each of the antennas, and wherein the first phase shifter is arranged at a next stage of an output of the a second A/D converter corresponding to the second antenna~~ is coupled to the first phase shifter, and a first adder is ~~arranged between the first phase shifter and the an output of a first A/D converter corresponding to the specific-first antenna~~ is coupled to the first adder.

4. (Currently Amended) The OFDM receiver according to claim 1, wherein an intermediate frequency signal based on the high frequency signal received by a ~~specific-first~~ antenna in each of the antenna groups, and an intermediate frequency signal based on the high frequency signal received by a second antenna different from the ~~specific-first~~ antenna are diversity-synthesized by the first phase shifter.

5. (Currently Amended) The OFDM receiver according to claim 4, wherein each antenna in each antenna group is coupled to a receiving portion that frequency- converts the high frequency signal to the intermediate frequency signal~~is arranged for each of the antennas, and an output of a first one of the receiving portions corresponding to the first antenna is coupled to the first adder and an output of a second one of the receiving portions corresponding to the second antenna is coupled to the phase shifter.~~ ~~the first phase shifter is arranged at a next stage of the receiving portion corresponding to the second antenna, and a first adder is arranged between the receiving portion corresponding to the specific antenna and the first phase shifter.~~

6. (Currently Amended) The OFDM receiver according to claim 1, wherein the high frequency signal received by a ~~specific-first~~ antenna in each of the antenna

groups, and the high frequency signal received by a second antenna different from the ~~specific-first~~ antenna are diversity-synthesized by the first phase shifter.

7. (Cancelled)

8. (Currently Amended) The OFDM receiver according to claim 3, further comprising a power detector to detect electric power of the ~~base-band~~baseband signal of the ~~time-area~~time domain and a phase controller to control phase setting of the first phase shifter to maximize the electric power.

9. (Currently Amended) The OFDM receiver according to claim 5, further comprising a power detector to detect electric power of the ~~base-band~~baseband signal of the ~~time-area~~time domain and a phase controller to control phase setting of the first phase shifter to maximize the electric power.

10. (Currently Amended) The OFDM receiver according to claim 7~~6~~, further comprising a power detector to detect electric power of the ~~base-band~~baseband signal of the ~~time-area~~time domain, and a phase controller to control phase setting of the first phase shifter to maximize the electric power.

11-12. (Cancelled)